CLAIMS

What is claimed is:

1   1. A method comprising:

2   converting bytecodes into a graph of jop objects to track where jump

3   operations pointed before modification of said bytecodes;

4   adjusting constant pool references from local to global numbers based on

5   said graph; and

6   combining said bytecodes into a bundle.

1   2. The method as in claim 1 wherein adjusting further comprises:

2   combining redundant constant pool entries to form a single global

3   constant pool entry in a shared constant pool within said bundle.

1   3. The method as in claim 2 wherein one of said global constant pool

2   entries is a methodref entry and an element identified by said global constant

3   pool entry is a method copied to said bundle.

1   4. The method as in claim 2 wherein one of said global constant pool

2   entries is a fieldref entry and an element identified by said global constant pool

3   entry is a field copied to said bundle.s

1   5. The method as in claim 1 further comprising:

2   performing a validation to insure that all constant pool references are

3   properly resolved within said bundle.

1   6.   An article of manufacture containing a sequence of code which, when

2   executed by a machine, cause said machine to perform the operations of:

3   converting bytecodes into a graph of jop objects to track where jump

4   operations pointed before modification of said bytecodes;

5   adjusting constant pool references from local to global numbers based on

6   said graph; and

7   combining said bytecodes into a bundle.

1   7.   The method as in claim 1 wherein adjusting further comprises:

2   combining redundant constant pool entries to form a single global

3   constant pool entry in a shared constant pool within said bundle.

1   8.   The method as in claim 2 wherein one of said global constant pool

2   entries is a methodref entry and an element identified by said global constant

3   pool entry is a method copied to said bundle.

1   9.   The method as in claim 2 wherein one of said global constant pool

2   entries is a fieldref entry and an element identified by said global constant pool

3   entry is a field copied to said bundle.s

1   10. The method as in claim 1 further comprising:

2   performing a validation to insure that all constant pool references are

3   properly resolved within said bundle.